



# Master of Science in Economics

## Module Catalogue

Wirtschafts- und Sozialwissenschaftliche Fakultät

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## Curriculum

M.Sc. Economics	
Module Title	CP
<b>A. Fundamentals</b>	<b>27</b>
Compulsory modules.	
Advanced Microeconomics	9
Advanced Macroeconomics	9
Advanced Microeconometrics	9
<b>B. Specialization I</b>	<b>48</b>
Required options. Four modules have to be selected.	
Political Economics	12
Urban and Regional Economics	12
Growth and Distribution	12
International Political Economics	12
Development Economics	12
Public Policy Evaluation	12
Applied Microeconomics	12
<b>C. Specialization II</b>	<b>24</b>
Required options. Choose two modules from „B. Specialization“ (24 CP) <i>or</i> choose one module from „B. Specialization“ (12 CP) and two of the following modules (12 CP) <i>or</i> select four of the following modules (24 CP).	
Economic Studies I	6
Economic Studies II	6
Advanced Course in Economics I	6
Advanced Course in Economics II	6
Cross Disciplinary Studies	6
<b>D. Master Thesis and Research Colloquium</b>	<b>21</b>
Research Colloquium	3
Master Thesis	18
<b>Total</b>	<b>120</b>

## A. Fundamentals

Module Title <b>Advanced Microeconomics</b>		Total Credits 9 CP (Credit Points)		
Module Code	MA-B-100			
Module Type	compulsory module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will:</p> <ul style="list-style-type: none"> <li>- have deepened knowledge about microeconomic theory and current research in this field;</li> <li>- be able to apply theoretical methods to analyze decisions under risk and uncertainty;</li> <li>- be able to deal with current economic problems using microeconomic techniques;</li> <li>- be able to discuss economic topics in a scientific way.</li> </ul>			
Method of Assessment (Assessment Type)	written examination (90 minutes)			
Self Study (in hours)	210 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture	2	-	-	--
Tutorial	2	team-based assignment (10-25 pages)	-	--
Frequency	summer term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Lisa Bruttel			



Module Title <b>Advanced Macroeconomics</b>		Total Credits 9 CP (Credit Points)		
Module Code	MA-B-200			
Module Type	compulsory module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- get the general idea of modern dynamic macroeconomic theories;</li> <li>- understand methods useful for the theoretical or empirical analysis of dynamic macroeconomic models;</li> <li>- deal with problems from the field of dynamics macroeconomics and to evaluate economic policy measures;</li> <li>- independently apply methods used for the theoretical or empirical analysis of dynamic macroeconomic models to actual policy questions.</li> </ul>			
Method of Assessment (Assessment Type)	written examination (90 minutes)			
Self Study (in hours)	210 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
		Lecture	2	
Tutorial	2	team-based assignment (10-25 pages)	-	--
Frequency	winter term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Maik Heinemann			

Module Title <b>Advanced Microeconometrics</b>		Total Credits 9 CP (Credit Points)		
Module Code	MA-B-300			
Module Type	compulsory module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- detect and analyze empirical relationships;</li> <li>- understand the most important microeconometrical estimation methods, e.g. the multiple regression model, the instrumental variables estimator, estimation approaches for binary dependent variables;</li> <li>- apply the estimation methods;</li> <li>- understand, assess and deal with complex empirical questions;</li> <li>- analyze data sets with the statistical software STATA and apply the acquired theoretical knowledge in practice.</li> </ul>			
Method of Assessment (Assessment Type)	written examination (90 minutes)			
Self Study (in hours)	210 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture	2	-	-	--
Tutorial	2	team-based assignment (10-25 pages)	-	--
Frequency	winter term			
Language of instruction	English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Marco Caliendo			

## B. Specialization I

Module Title <b>Political Economics</b>		Total Credits 12 CP (Credit Points)		
Module Code	MA-S-100			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- have an overview of the current state of research in the field of Political Economics;</li> <li>- master the theoretical and empirical methods of analysis in Political Economy;</li> <li>- assess recent issues in Political Economics by using economic theory as well as evaluating economic policy measures;</li> <li>- handle and solve problems from the field of Political Economy.</li> </ul>			
Method of Assessment (Assessment Type)	see course-oriented examination			
Self Study (in hours)	300 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture	2	-	-	written examination (90 min.)
Tutorial	2	-	-	problem-solving questions (10-15 pages) <i>or</i> portfolio (oral presentation [20 min.] and academic essay [20 pages])
Frequency	summer term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Rainald Borck			

Module Title Urban and Regional Economics		Total Credits 12 CP (Credit Points)		
Module Code	MA-S-200			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- have an overview of the current state of research in the field Urban and Regional Economics;</li> <li>- master the theoretical and empirical methods of analysis in Urban and Regional Economics;</li> <li>- assess recent issues in Urban and Regional Economics by using economic theory as well as evaluating economic policy measures;</li> <li>- handle and solve problems from the field of Urban and Regional Economics.</li> </ul>			
Method of Assessment (Assessment Type)	see course-oriented examination			
Self Study (in hours)	300 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture	2	-	-	written examination (90 min.)
Tutorial	2	-	-	problem-solving questions (10-15 pages) <i>or</i> portfolio (oral presentation [20 min.] and academic essay [20 pages])
Frequency	winter term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Rainald Borck			



<b>Module Title</b> <b>Growth and Distribution</b>		<b>Total Credits</b> 12 CP (Credit Points)		
Module Code	MA-S-300			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- get the general idea of modern theories of growth and distribution as well as natural resource economics;</li> <li>- understand methods useful for the theoretical or empirical analysis of dynamic macroeconomic models;</li> <li>- deal with problems from this subject area and to evaluate economic policy measures;</li> <li>- independently apply methods used for the theoretical or empirical analysis of dynamic macroeconomic models to actual policy questions.</li> </ul>			
Method of Assessment (Assessment Type)	see course-oriented examination			
Self Study (in hours)	300 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture	2	-	-	written examination (90 min.)
Tutorial	2	-	-	problem-solving questions (10-15 pages)
Frequency	summer term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Maik Heinemann			

<b>Module Title</b> <b>International Political Economics</b>		<b>Total Credits</b> 12 CP (Credit Points)		
Module Code	MA-S-400			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will</p> <ul style="list-style-type: none"> <li>- have profound knowledge of trade theories, trade policies and the institutions of the world trade regime;</li> <li>- be able to analyze complex subject matters in the field of international economic relations by using analytical and empirical concepts and methods;</li> <li>- be capable to examine the validity and relevance of trade models and develop feasible economic policy recommendations;</li> <li>- be trained to present their own research work in a professional way and comment on the research work done by other scientists and institutions.</li> </ul>			
Method of Assessment (Assessment Type)	see course-oriented examination			
Self Study (in hours)	300 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture	2	-	-	written examination (90 min.)
Seminar	2	-	-	portfolio (oral presentation [20 min.] and academic essay [12-15 pages])
Frequency	winter term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Malcolm Dunn			

<b>Module Title</b> <b>Development Economics</b>		<b>Total Credits</b> 12 CP (Credit Points)		
Module Code	MA-S-500			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will</p> <ul style="list-style-type: none"> <li>- have profound knowledge of the theories and policies of economic development and underdevelopment and the mayor international development institutions and organizations;</li> <li>- be able to analyze complex subject matters in the field of economic development by using analytical and empirical concepts and methods;</li> <li>- be capable to examine the validity and relevance of development models and develop feasible economic policy recommendations;</li> <li>- be trained to present their own research work in a professional way and comment on the research work done by other scientists and institutions.</li> </ul>			
Method of Assessment (Assessment Type)	see course-oriented examination			
Self Study (in hours)	300 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture	2	-	-	written examination (90 min.)
Seminar	2	-	-	portfolio (oral presentation [20 min.] [25%] and academic essay [12-15 pages] [75%])
Frequency	lecture = winter term, seminar = summer term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Malcolm Dunn			

<b>Module Title</b> <b>Public Policy Evaluation</b>		<b>Total Credits</b> 12 CP (Credit Points)		
Module Code	MA-S-600			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will:</p> <ul style="list-style-type: none"> <li>- know empirical approaches to evaluate policy interventions;</li> <li>- know different experimental and non-experimental estimation methods and their underlying assumptions, e.g. Matching and Difference-in-Differences;</li> <li>- have a profound knowledge of the statistical software STATA;</li> <li>- be able to apply the acquired theoretical methods on practical problems;</li> <li>- be able to present their results and findings in a structured and coherent way.</li> </ul>			
Method of Assessment (Assessment Type)	see course-oriented examination			
Self Study (in hours)	300 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture	2	-	-	written examination (90 min.)
Seminar	2	-	-	portfolio (oral presentation [20 min.] [25%] and academic essay [15-20 pages] [75%])
Frequency	summer term			
Language of instruction	English			
Prerequisites	Module MA-B-300 Microeconometrics (recommendation)			
Module co-ordinator	Prof. Dr. Marco Caliendo			

Module Title <b>Applied Microeconomics</b>		Total Credits 12 CP (Credit Points)		
Module Code	MA-S-700			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will:</p> <ul style="list-style-type: none"> <li>- have deepened knowledge about microeconomic theory and current research important special topics;</li> <li>- be able to apply theoretical and empirical methods to analyze microeconomic questions;</li> <li>- be able to deal with and answer economic questions in a scientific way using microeconomic techniques.</li> </ul>			
Method of Assessment (Assessment Type)	see course-oriented examination			
Self Study (in hours)	300 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture	2	-	-	written examination (90 min.)
Tutorial	2	-	-	problem-solving questions (10-15 pages)
Frequency	summer term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Lisa Bruttel			

## C. Specialization II

Module Title Economic Studies I		Total Credits 6 CP (Credit Points)		
Module Code	MA-W-110			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will</p> <ul style="list-style-type: none"> <li>- have extended their knowledge in one of the above mentioned fields of economics               <ul style="list-style-type: none"> <li>• Growth, Distribution, Resource Allocation,</li> <li>• Foreign Trade Theory and Policy,</li> <li>• Environment and International Taxation,</li> <li>• Labor Economics,</li> <li>• Dynamic Macroeconomics;</li> </ul> </li> <li>- be familiar with the current state of research and also capable to comment on the current debates within the subject matter;</li> <li>- be trained to develop economic policy recommendations and qualified to participate in research projects by applying analytical and empirical methods and concepts professionally.</li> </ul>			
Method of Assessment (Assessment Type)	written examination (max. 120 min.) <i>or</i> report (12-20 pages) <i>or</i> portfolio (oral presentation [20 min.] and academic essay [15-20 pages] [course-oriented])			
Self Study (in hours)	150 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture <i>or</i> Seminar <i>or</i> Tutorial	2	-	-	-
Frequency	summer term or winter term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Maik Heinemann / Prof. Dr. Malcolm Dunn			

Module Title <b>Economic Studies II</b>		Total Credits 6 CP (Credit Points)		
Module Code	MA-W-120			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- enlarge their knowledge on a chosen field in Economics and obtain profound knowledge in one of the following fields: <ul style="list-style-type: none"> <li>o Urban and Regional Economics,</li> <li>o Development theory and politics,</li> <li>o Energy Economics,</li> <li>o Microeconomics;</li> </ul> </li> <li>- know the state of research and are able to make a grounded judgment on current debates;</li> <li>- deepen their knowledge in methods and are able to work on recent economical questions with economic theories and evaluate(political) measures.</li> </ul>			
Method of Assessment (Assessment Type)	written examination (max. 120 min.) <i>or</i> report (12-20 pages) <i>or</i> portfolio (oral presentation [20 min.] and academic essay [15-20 pages] [course-oriented]			
Self Study (in hours)	150 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Lecture <i>or</i> Seminar <i>or</i> Tutorial	2	-	-	-
Frequency	summer term or winter term			
Language of instruction	German or English			
Prerequisites	None			
Module co-ordinator	Prof. Dr. Rainald Borck / Prof. Dr. Anne Neumann			



Module Title Advanced Course in Economics I		Total Credits 6 CP (Credit Points)		
Module Code	MA-W-210			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- deepen their methodological and theoretical knowledge in a specific economic field of their choice, e.g. <ul style="list-style-type: none"> <li>• Political Economics,</li> <li>• Growth, Distribution, Resource Allocation,</li> <li>• Applied Econometrics,</li> <li>• Topics in Empirical Economics,</li> <li>• Applied Microeconomics;</li> </ul> </li> <li>- analyze complex theoretical relationships or practical problems and autonomously develop solutions drawing on theories or methods;</li> <li>- link theoretical and empirical models;</li> <li>- autonomously read up on an economic topic and to familiarize with the current state of research;</li> <li>- give presentations, discuss the work of others and argument in a profound and sound way;</li> <li>- autonomously work on a scientific research question and to document and write up the findings and results.</li> </ul>			
Method of Assessment (Assessment Type)	portfolio (oral presentation [20 min.] [25%] and academic essay [15-20 pages] [75%])[course-oriented]			
Self Study (in hours)	150 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Seminar	2	-	-	-
Frequency	summer term or winter term			
Language of instruction	German or English			
Prerequisites	Completion of MA-S-600 or MA-S-700 is recommended.			
Module co-ordinator	Prof. Dr. Marco Caliendo / Prof. Dr. Lisa Bruttel			

<b>Module Title</b> <b>Advanced Course in Economics II</b>		<b>Total Credits</b> 6 CP (Credit Points)		
Module Code	MA-W-220			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- deepen their methodological and theoretical knowledge in a specific economic field of their choice, e.g. <ul style="list-style-type: none"> <li>• Political Economics,</li> <li>• Growth, Distribution, Resource Allocation,</li> <li>• Applied Econometrics,</li> <li>• Topics in Empirical Economics,</li> <li>• Applied Microeconomics;</li> </ul> </li> <li>- analyze complex theoretical relationships or practical problems and autonomously develop solutions drawing on theories or methods;</li> <li>- link theoretical and empirical models;</li> <li>- autonomously read up on an economic topic and to familiarize with the current state of research;</li> <li>- give presentations, discuss the work of others and argument in a profound and sound way;</li> <li>- autonomously work on a scientific research question and to document and write up the findings and results.</li> </ul>			
Method of Assessment (Assessment Type)	portfolio (oral presentation [20 min.] [25%] and academic essay [15-20 pages] [75%])[course-oriented]			
Self Study (in hours)	150 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Seminar	2	-	-	-
Frequency	summer term or winter term			
Language of instruction	German or English			
Prerequisites	Completion of MA-S-200 or MA-S-600 is recommended.			
Module co-ordinator	Prof. Dr. Marco Caliendo / Prof. Dr. Rainald Borck			

Module Title Cross Disciplinary Studies		Total Credits 6 CP (Credit Points)		
Module Code	MA-W-300			
Module Type	compulsory optional module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- acquire advanced knowledge in fields related to economics;</li> <li>- apply the methodological knowledge in economics on questions and problems in related fields;</li> <li>- apply methodological knowledge in related fields in questions and problems in economics;</li> <li>- give a profound presentation and handle critical questions;</li> <li>- discuss with peers from related fields on an advanced level and collaboratively develop solutions drawing on insights from the field of economics.</li> </ul>			
Method of Assessment (Assessment Type)	written examination (max. 120 min.) or report/essay (12-20 pages) or portfolio (oral presentation [20 min.] [25%] and academic essay [15-20 pages] [75%][course-oriented]			
Self Study (in hours)	150 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Seminar	2	-	-	-
Frequency	summer term or winter term			
Language of instruction	German or English			
Prerequisites	Completion of MA-S-200 or MA-S-600 is recommended.			
Module co-ordinator	Lecturer			

## D. Research Colloquium

Module Title <b>Research Colloquium</b>		Total Credits 3 CP (Credit Points)		
Module Code	MA-F-100			
Module Type	compulsory module			
Learning Outcomes and Module Content	<p>On successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> <li>- autonomously work on scientific topics about specific economic questions;</li> <li>- develop a research design, to structure their research question and to create a work schedule;</li> <li>- present their research proposal in a convincing manner and defend it against critical objections;</li> <li>- apply appropriate scientific methods to answer the research question and justify their choice of methods.</li> </ul>			
Method of Assessment (Assessment Type)	oral presentation [20 min.] [pass/fail grading]			
Self Study (in hours)	150 hours			
Course Type (Teaching Activities)	Contact hours (hours per week)	Obligatory Coursework (number, form, extent)		Course-oriented examination
		For completion of the module	Requirement for admission to assessment	
Seminar	2	-	-	-
Frequency	summer term and winter term			
Language of instruction	German or English			
Prerequisites	The module is a thesis preparation course.			
Module co-ordinator	All professorships in Economics			